

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(MODIFIED) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.96(b))

ATTY. DOCKET NO.

01-40147-US-C1

SERIAL NO.

10/726,262

APPLICANT

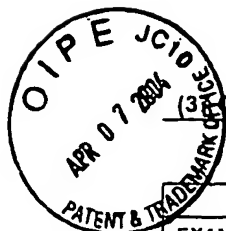
Gillston et al.

FILING DATE

December 2, 2003

GROUP

3747



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HHH	2 6 6 4 8 7 3	1/1954	Graham			
	2 9 1 4 0 4 8	11/1959	Philipp			
	3 1 6 6 8 5 9	1/1965	Slayter et al.			
	3 2 3 3 6 9 7	2/1966	Slayter et al.			
	3 3 0 2 3 9 4	2/1967	Pahnke et al.			
	3 4 1 9 3 6 3	12/1968	Slincy			
	3 4 5 9 1 6 7	8/1969	Briggs et al.			
	3 6 4 8 6 7 6	3/1972	Lowman, Jr.			
	3 6 4 9 2 2 5	3/1972	Simmons			
	3 6 6 0 1 7 3	05/1972	Matsuno et al.			
	3 8 2 0 5 2 3	06/1974	Showalter et al.			
	3 8 4 6 9 8 0	11/1974	DePalma			
	3 8 7 3 3 4 7	3/1975	Waller et al.			
	3 8 7 4 9 0 1	4/1975	Rairden, III			
	3 8 9 9 3 0 0	8/1975	D'Olier			
	3 9 1 1 8 7 5	10/1975	Ysberg			
	3 9 1 1 8 9 0	10/1975	Ansdale			
	3 9 1 1 8 9 1	10/1975	Dowell			
HHH	3 9 2 8 0 2 6	12/1975	Hecht et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLI- CATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

HHH	Process Coatings, Engine Coatings (visited May 21, 2001) < http://www.processcoatings.com/engine.htm >
I	Technical Papers, Techniques for Low NOx Combustion on Medium Speed Diesel Engine, (visited Jul 11, 2001) < http://www.mesj.or.jp/bunken/english/text/mv28n012000p08.html >
HHH	US Patent & Trademark Office, United States Patent: 5,722,379 (visited May 24, 2001) < http://www.164.195.100.11/netacgi/nph-...DX.*)&OS=CCL/123/668&RS+CCL/123/668 >

EXAMINER

HAI HUYNH

DATE CONSIDERED

6/29/05

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.96(b))	ATTY. DOCKET NO. 01-40147-US	SERIAL NO. Not Yet Assigned
	APPLICANT Gillston, et al.	
	FILING DATE August 1, 2001	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
HHH		3	9	4	7	5	4	5	3/1976	Ishida et al.				
		3	9	6	9	0	8	2	7/1976	Cairns et al.				
		3	9	7	6	8	0	9	8/1976	Dowell				
		4	0	0	5	9	8	9	2/1977	Preston				
		4	0	7	4	6	7	1	2/1978	Pennila				
		4	0	7	7	6	3	7	3/1978	Hyde et al.				
		4	1	2	2	6	7	3	10/1978	Leins				
		4	1	3	2	7	4	3	1/1979	Castor et al.				
		4	2	5	4	6	2	1	3/1981	Nagumo				
		4	2	7	3	8	2	4	6/1981	McComas et al.				
		4	2	7	6	3	3	1	6/1981	Bothwell				
		4	3	0	0	4	9	4	11/1981	Graiff et al.				
		4	3	1	8	8	9	4	3/1982	Hensel et al.				
		4	3	3	0	7	3	2	5/1982	Lowther				
		4	3	3	2	6	1	8	6/1982	Ballard				
HHH		4	3	3	5	1	9	0	6/1982	Bill et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION														
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)														
HHH		Emission Standards: USA, Urban Bus Retrofit Rebuild (UBRR) Program, (visited Jul 9, 2001) < http://www.dieselnet.com/standards/us/ubrr.html >												
/		The U.S. Department of Energy, Engine Manufacturers Associations, Manufacturers of Emission Controls Association, "Final Report: Diesel Oxidation Catalysts and Lean-No _x Catalysts June 2001", Diesel Emission Control - Sulfur Effects (DECSE) Program, pp. 1-99.												
HHH		Jones, "Catalytic Combustion in Internal Combustion Engines: A Possible Explanation for the Woschni Effect in Thermally-Insulated Diesel Engines", Navel Research Laboratory, November 1996, pp. i-26.												
EXAMINER										DATE CONSIDERED				
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HHH		4	3	3	9	5	0	9	7/1982	Dardi et al.			
		4	3	4	0	0	1	9	7/1982	Barnert et al.			
		4	3	5	3	2	0	8	10/1982	Volker et al.			
		4	4	7	1	0	1	7	9/1984	Poeschel et al.			
		4	4	8	5	1	5	1	11/1984	Stecura			
		4	4	9	5	9	0	7	1/1985	Kamo			
		4	5	3	6	3	7	1	8/1985	Thayer et al.			
		4	5	7	7	6	1	1	3/1986	Hagino			
		4	5	7	8	1	1	4	3/1986	Rangaswamy et al.			
		4	5	9	9	2	7	0	7/1986	Rangaswamy et al.			
		4	6	3	3	9	3	6	1/1987	Nilsson			
		4	6	5	9	6	8	0	4/1987	Guile			
		4	7	0	6	6	1	6	11/1987	Yoshimitsu			
		4	7	2	8	4	4	8	3/1988	Sliney			
		4	7	5	5	3	6	0	7/1988	Dickey et al.			
HHH		4	7	7	2	5	1	1	9/1988	Wood et al.			

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

HHH		Kamo, "High Performance Coatings For Diesels and Other Heat Engines", Adiabatics, Inc., Advanced Engine Concepts, Thermal Spray Coatings Conference, September 1993.		
I		Kawamura, et al., "Improvement of Fuel Consumption and Exhaust Emissions in Ceramics Low Heat Rejection Engine", Isuzu Ceramics Research Institute Co., Ltd, ICE-Vol. 27-1, 1996 Fall Technical Conference, Vol. 1, ASME 1996, pp 69-78,		
HHH		Klett, et al., "Soot and No _x Emissions and Combustion Characteristics of Low Heat Rejection Direct Injection Diesel Engines", U.S. Army Research Office, January 1994, pp. I-iii, 1-109.		
EXAMINER		HA1 HUYKH	DATE CONSIDERED	6/29/05

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HHH	4	7	7	3	3	6	8	9/1988	Pfefferle				
	4	8	1	0	3	3	4	3/1989	Honey et al.				
	4	8	1	9	5	9	5	4/1989	Pfefferle				
	4	8	4	9	2	4	7	7/1989	Scanlon et al.				
	4	8	5	2	5	4	2	8/1989	Kamo et al.				
	4	8	6	7	1	1	6	9/1989	de Freitas Couto Rosa et al.				
	4	8	7	7	7	0	5	10/1989	Polidor				
	4	8	8	0	6	1	4	11/1989	Strangman et al.				
	4	9	0	2	3	5	8	2/1990	Napier et al.				
	4	9	0	5	6	5	8	3/1990	Pfefferle				
	4	9	0	9	2	3	0	3/1990	Kawamura				
	4	9	1	6	0	2	2	4/1990	Solfest et al.				
	4	9	3	0	6	7	8	6/1990	Cyb				
	4	9	6	6	8	2	0	10/1990	Kojima et al.				
	4	9	8	5	0	9	2	1/1991	Kaede et al.				
HHH	5	0	3	3	4	2	7	7/1991	Kawamura et al.				
	5	0	5	7	3	7	9	10/1991	Fayeulle et al.				
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HHH	Osawa, et al., "Performance of Thin Thermal Barrier Coating on Small Aluminum Block Diesel Engine", SAE Technical Paper Series 910461, International Congress and Exposition, February/March 1991, pp. 1-8.												
/	Tree, et al., "Experimental Results on the Effect of Piston Surface Roughness and Porosity on Diesel Engine Combustion", Society of Automotive Engineers, Inc., 960036, March 1996, pp. 103-112.												
HHH	Tree, et al., "Experimental Measurements on the Effect of Insulated Pistons on Engine Performance and Heat Transfer", Society of Automotive Engineers, Inc., 960317, March 1996, pp. 131-142.												
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HHH	5	0	8	0	0	5	6	1/1992	Kramer et al.					
	5	0	8	0	9	7	7	1/1992	Zaplalynsky					
	5	0	8	5	2	6	8	2/1992	Nilsson					
	5	1	3	6	9	9	4	8/1992	Gale					
	5	1	5	1	2	5	4	9/1992	Arai et al.					
	5	2	3	6	7	8	7	8/1993	Grassi					
	5	2	9	2	3	8	2	3/1994	Longo					
	5	3	3	4	2	3	5	8/1994	Dorfman et al.					
	5	3	8	4	2	0	0	1/1995	Giles et al.					
	5	4	0	8	9	6	4	4/1995	Rao					
	5	4	1	9	1	2	6	5/1995	Kiyooka					
	5	4	3	1	1	3	6	7/1995	Kenmoku et al.					
	5	4	4	1	0	2	4	8/1995	Wietig et al.					
	5	4	6	2	9	0	7	10/1995	Farrauto et al.					
	5	4	6	8	2	9	5	11/1995	Marantz et al.					
	5	4	9	1	1	2	0	2/1996	Voss et al.					
	5	4	9	5	8	3	7	3/1996	Mitsuhashi et al.					
HHH	5	5	8	9	1	4	4	12/1996	Filippi et al.					
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)														
HHH		Winkler, et al., "The Role of Diesel Ceramic Coatings in Reducing Automotive Emissions and Improving Combustion Efficiency", SAE Technical Paper Series 930158, March 1993, pp. 1-9.												
/		Wong, et al., "Assessment of Thin Thermal Barrier Coatings for I.C. Engines", SAE Technical Paper Series 950980, International Congress and Exposition, February/March 1993, pp. 1-11.												
HHH		Yonushonis, et al., "Engineered Thermal Barrier Coatings for Diesels", SAE Technical Paper Series 890297, International Congress and Exposition, February/March 1989, pp. 133-142.												
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#H#	5	6	1	1	3	0	6	3/1997	Takano				
	5	6	4	8	6	2	0	7/1997	Stenzel et al.				
	5	7	1	4	2	0	5	2/1998	Marantz et al.				
	5	8	6	6	5	1	8	2/1999	Dellacorte et al.				
	5	9	3	4	6	4	8	8/1999	Rivers et al.				
	5	9	5	8	3	3	2	9/1999	Hoeg				
	5	9	8	7	8	8	2	11/1999	Voss et al.				
	6	0	0	6	5	1	6	12/1999	Voss et al.				
	6	0	4	7	5	4	3	4/2000	Caren et al.				
	6	0	8	5	7	1	4	7/2000	Wilson et al.				
	6	0	9	5	1	0	7	08/2000	Kloft et al.				
	6	2	2	6	8	6	6	5/2001	Wilson et al.				
	6	2	5	5	2	4	9	7/2001	Voss et al.				
	6	2	5	6	9	8	4	7/2001	Voss et al.				
#H#	6	2	9	8	8	1	7	10/2001	Hoeg				
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